

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P320982

Luminaire Tested: **GAN-SA8D-740-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320982
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8D-740-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 63796 lumens
Efficiency: N/A
Efficacy: 124.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

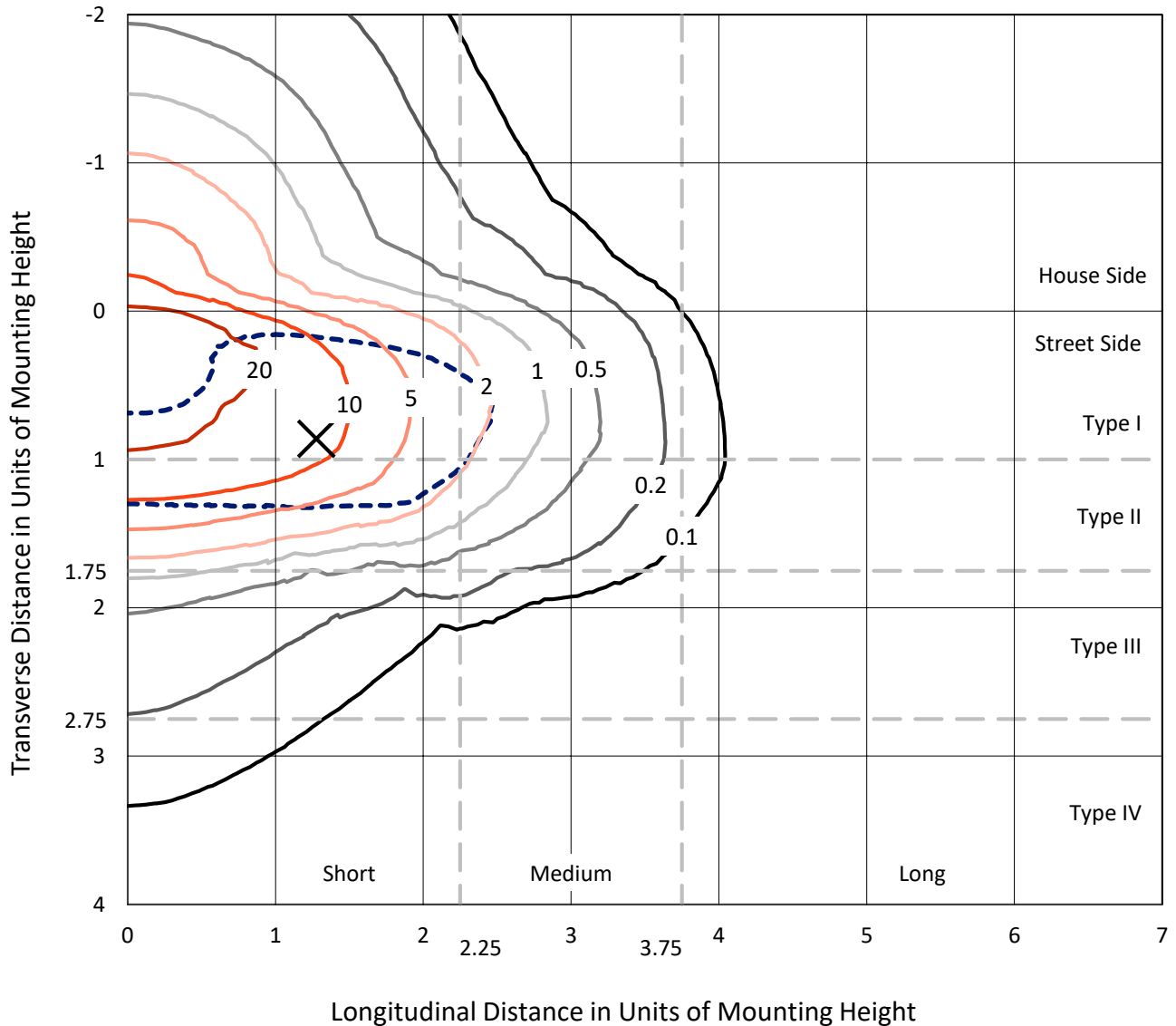
Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

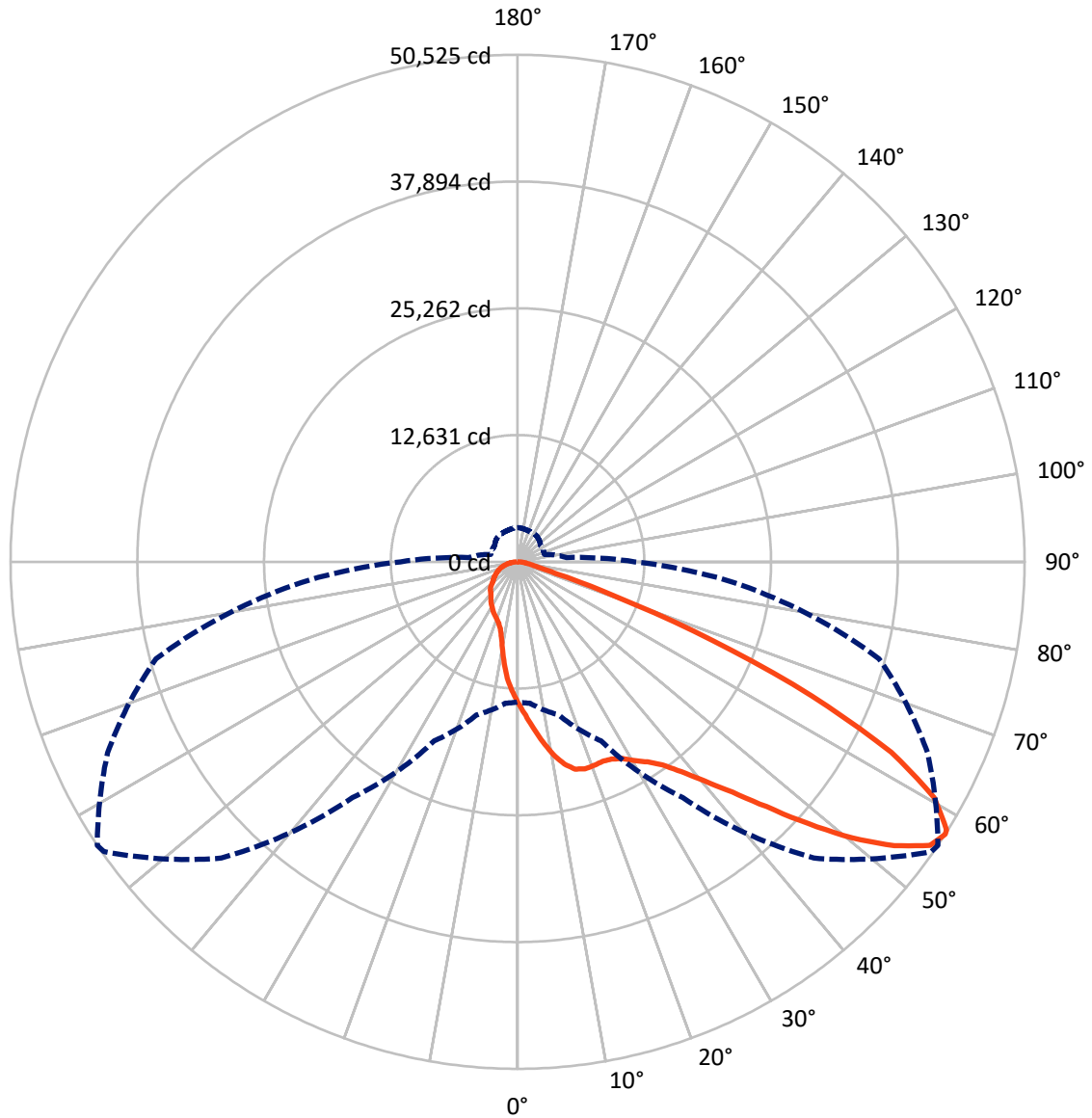
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 31.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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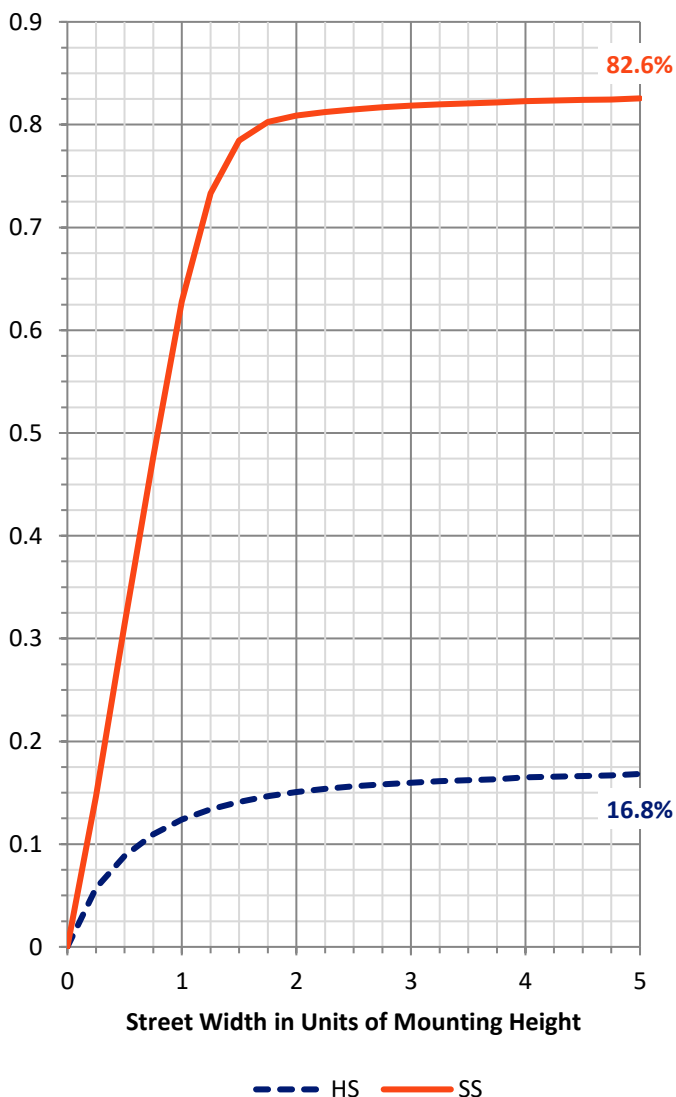
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10997.1	0.0	10997.1
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	52798.9	0.0	52798.9
	% Fixture	82.8	0.0	82.8
Total	Lumens	63796.0	0.0	63796.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1351.7	2.1
10°-20°	3821.5	6.0
20°-30°	6224.5	9.8
30°-40°	9305.0	14.6
40°-50°	14113.6	22.1
50°-60°	15818.9	24.8
60°-70°	9343.3	14.6
70°-80°	3061.2	4.8
80°-90°	756.3	1.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	63796.0	100.0
0°-180°	63796.0	100.0

Coefficient of Utilization

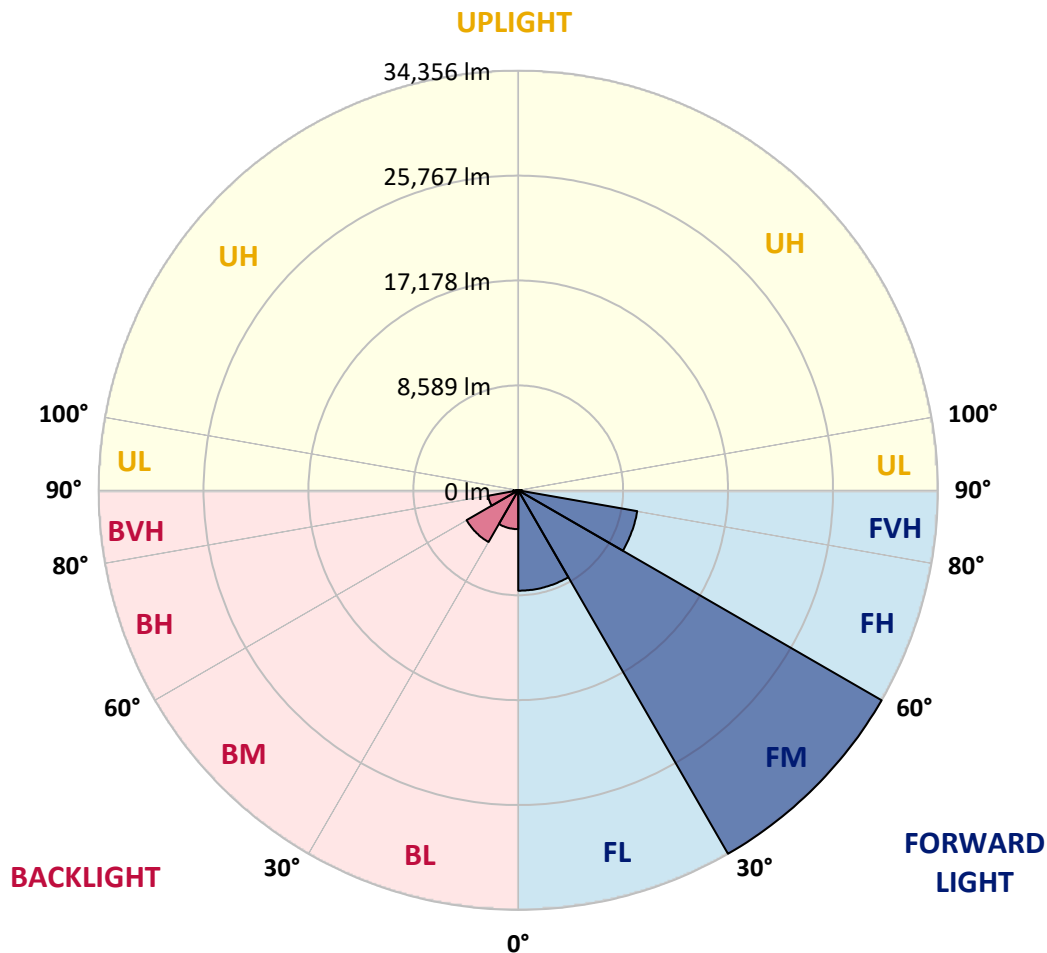


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	8217.9	12.9			
FM (30°-60°)	34356.3	53.9			
FH (60°-80°)	9891.8	15.5			G4/12000
FVH (80°-90°)	333.0	0.5			G3/500
BL (0°-30°)	3179.8	5.0	B4/5000		
BM (30°-60°)	4881.2	7.7	B3/5000		
BH (60°-80°)	2512.7	3.9	B4/5000		G4/5000
BVH (80°-90°)	423.3	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	14150.0	14150.0	14150.0	14150.0	14150.0	14150.0	14150.0	14150.0	14150.0	14150.0	14150.0
2.5°	16248.2	16397.3	16331.5	16103.5	15928.1	15680.3	15404.1	15320.8	15029.2	14702.5	14310.1
5°	18819.9	18745.4	18637.9	18282.8	17907.9	17471.6	16778.7	16669.1	16020.2	15281.3	14500.8
7.5°	20284.5	20277.9	20214.3	20006.0	19664.0	19094.0	18258.6	18129.3	17149.3	15961.0	14750.7
10°	20071.8	20056.4	20161.7	20378.7	20481.8	20363.4	19659.6	19530.3	18326.6	16713.0	15040.1
12.5°	18863.8	18872.5	19041.3	19497.4	20117.8	20863.3	20749.3	20685.7	19547.8	17563.6	15390.9
15°	17923.2	17942.9	18076.7	18473.5	19205.8	20558.5	21411.4	21433.3	20729.5	18502.0	15800.9
17.5°	17511.0	17552.7	17614.1	17892.5	18563.4	19951.2	21569.2	21687.6	21764.4	19475.4	16195.6
20°	17642.6	17682.0	17699.6	17877.2	18427.5	19582.9	21459.6	21672.3	22558.0	20391.9	16590.2
22.5°	18232.3	18256.5	18267.4	18313.5	18741.0	19688.1	21387.3	21610.9	23132.4	21214.1	16888.4
25°	19210.2	19192.6	19122.5	19063.3	19350.5	20104.7	21553.9	21766.5	23599.4	21959.5	17083.5
27.5°	20380.9	20359.0	20223.1	20060.8	20225.3	20753.6	22034.0	22202.8	24018.2	22656.7	17182.2
30°	21786.3	21729.3	21472.8	21279.8	21343.4	21727.1	22825.5	22979.0	24665.0	23448.2	17278.6
32.5°	23410.9	23349.5	22979.0	22658.9	22658.9	22979.0	23641.1	23768.2	25213.1	24342.7	17434.3
35°	25445.5	25368.7	24886.4	24349.2	24198.0	24360.2	24752.7	24842.5	26199.7	25469.6	17717.1
37.5°	27844.0	27740.9	27116.1	26397.0	26065.9	26057.2	26340.0	26524.1	27776.0	26949.5	18197.3
40°	30249.1	30176.8	29630.8	29065.2	28416.2	28207.9	28644.2	28701.2	29836.9	28786.7	18811.1
42.5°	32108.3	32095.1	31994.3	32068.8	31404.5	30983.6	31325.6	31371.6	32353.8	30775.3	19464.5
45°	33090.5	33112.4	33601.3	34684.4	34930.0	34623.0	34791.8	34805.0	35230.3	32781.4	20063.0
47.5°	32303.4	32417.4	33654.0	36076.6	38087.1	39106.6	38825.9	38988.2	38019.1	34504.6	20532.2
50°	29236.2	29376.5	31481.3	35456.1	39560.4	43445.4	43298.5	43261.2	40268.6	35767.5	20786.5
52.5°	25436.7	25546.3	27282.7	32231.1	38479.5	45843.9	47192.3	46999.3	42268.1	36712.4	20834.8
55°	19650.8	19821.9	21485.9	25794.1	34107.8	44927.5	50055.6	49882.4	44090.0	37207.9	20777.8
57°	13970.2	14150.0	15803.1	19685.9	28692.5	41755.0	50340.6	50524.8	45074.4	37291.2	20841.3
57.5°	12466.2	12650.4	14288.1	18059.1	27004.3	40608.4	50095.1	50402.0	45252.0	37278.1	20876.4
60°	6277.0	6347.1	7390.7	10080.8	17070.3	32829.6	46891.9	47683.4	45412.0	36633.5	21027.7
62.5°	3902.5	3852.1	3819.2	4643.6	8305.0	21770.9	40281.7	41805.5	42349.2	35072.5	20661.6
65°	3431.2	3336.9	2975.1	2909.4	3668.0	10574.1	30334.6	32231.1	35804.7	32612.6	19789.0
67.5°	3222.9	3130.8	2723.0	2477.5	2479.7	4191.9	18833.1	20968.5	27892.2	28453.5	17730.3
70°	3008.0	2924.7	2543.2	2253.8	2111.3	2321.8	8664.5	10284.7	18181.9	22365.1	14818.7
72.5°	2731.8	2674.8	2313.0	2014.9	1863.6	1738.6	3317.2	3917.9	10525.9	15020.4	10291.3
75°	2442.4	2389.8	2080.6	1795.6	1611.4	1368.1	1868.0	2012.7	5347.4	7684.5	5066.7
77.5°	2124.5	2093.8	1850.4	1587.3	1440.4	1133.5	1322.0	1392.2	2293.3	3295.2	2541.0
80°	1690.4	1749.6	1618.0	1414.1	1278.2	907.7	936.2	982.2	1335.2	1609.3	1442.6
82.5°	1100.6	1203.6	1267.2	1148.8	1052.4	714.7	673.1	692.8	870.4	982.2	627.0
85°	458.2	515.2	833.1	752.0	699.4	521.8	451.6	460.4	539.3	559.1	256.5
87.5°	203.9	217.1	366.1	344.2	296.0	179.8	192.9	210.5	287.2	271.9	98.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	14150.0	14150.0	14150.0	14150.0	14150.0	14150.0	14150.0	14150.0	14150.0	14150.0	14150.0
2.5°	14163.2	13979.0	13663.3	13314.7	13029.7	12801.7	12571.5	12413.6	12229.4	12130.8	12080.3
5°	14174.1	13812.4	13148.1	12466.2	11856.7	11299.8	10769.3	10361.5	9980.0	9773.9	9716.9
7.5°	14220.2	13676.4	12602.1	11479.6	10396.6	9407.8	8644.8	8166.8	7822.6	7669.2	7625.3
10°	14257.4	13516.4	11926.9	10265.0	8791.7	7789.7	7197.8	6930.3	6811.9	6792.2	6772.4
12.5°	14345.1	13352.0	11216.5	8997.8	7544.2	6851.4	6645.3	6627.7	6660.6	6708.9	6708.9
15°	14483.3	13189.7	10405.3	7910.3	6750.5	6507.2	6548.8	6645.3	6735.2	6809.7	6820.7
17.5°	14584.1	12990.2	9532.7	7039.9	6327.4	6393.2	6542.2	6678.2	6770.3	6842.6	6849.2
20°	14656.5	12681.1	8600.9	6375.6	6084.0	6287.9	6474.3	6594.9	6658.4	6730.8	6741.8
22.5°	14619.2	12266.7	7774.4	5899.9	5886.7	6134.4	6312.0	6456.7	6408.5	6338.3	6384.4
25°	14439.4	11696.7	6923.7	5544.7	5678.4	5928.4	6147.6	6051.1	5888.9	5858.2	5875.7
27.5°	14119.3	10968.8	6136.6	5215.8	5437.3	5737.6	5724.5	5628.0	5571.0	5531.5	5555.6
30°	13775.1	10179.5	5448.2	4928.6	5169.8	5417.5	5367.1	5364.9	5307.9	5244.3	5275.0
32.5°	13435.3	9385.8	4902.3	4691.8	4968.1	5001.0	5110.6	5143.5	5031.7	4897.9	4889.1
35°	13139.3	8636.0	4487.9	4477.0	4724.7	4729.1	4889.1	4843.1	4564.7	4426.5	4426.5
37.5°	12917.9	7888.4	4172.2	4284.0	4404.6	4518.6	4599.7	4409.0	4363.0	4286.2	4284.0
40°	12821.4	7230.7	3974.9	4137.1	4178.8	4323.5	4115.2	4189.8	4211.7	4172.2	4172.2
42.5°	12720.5	6658.4	3803.9	4025.3	4018.7	3999.0	3893.8	3990.2	4077.9	4080.1	4073.6
45°	12619.7	6165.1	3652.6	3786.3	3878.4	3665.8	3685.5	3788.5	3911.3	3955.2	3955.2
47.5°	12507.9	5774.9	3514.5	3534.2	3676.7	3534.2	3518.9	3597.8	3742.5	3812.7	3828.0
50°	12262.3	5424.1	3356.6	3312.8	3352.2	3400.5	3413.6	3450.9	3610.9	3722.8	3749.1
52.5°	11922.5	5110.6	3154.9	3108.9	3108.9	3290.9	3352.2	3363.2	3499.1	3632.9	3659.2
55°	11639.7	4911.1	2946.6	2937.9	2929.1	3174.7	3279.9	3297.4	3391.7	3496.9	3510.1
57°	11659.4	4895.7	2786.6	2795.4	2793.2	3056.3	3211.9	3249.2	3297.4	3387.3	3402.7
57.5°	11670.4	4906.7	2751.5	2755.9	2753.7	3023.4	3192.2	3233.8	3271.1	3365.4	3380.7
60°	11834.8	4935.2	2609.0	2560.8	2571.7	2848.0	3080.4	3133.0	3157.1	3282.1	3301.8
62.5°	11591.4	4808.0	2495.0	2378.8	2378.8	2663.8	2924.7	3008.0	3045.3	3214.1	3247.0
65°	10885.5	4450.7	2361.3	2172.7	2194.6	2479.7	2738.4	2874.3	2931.3	3141.8	3176.8
67.5°	9795.8	4036.3	2218.7	1988.5	2010.5	2286.7	2545.4	2692.3	2782.2	3062.8	3091.3
70°	8377.3	3529.8	2025.8	1793.4	1819.7	2076.2	2317.4	2484.0	2617.8	2988.3	2997.1
72.5°	6176.1	2894.0	1756.1	1578.6	1607.1	1830.7	2087.2	2280.1	2459.9	2801.9	2797.6
75°	3672.3	2262.6	1458.0	1361.5	1381.2	1589.5	1878.9	2113.5	2383.2	2729.6	2771.2
77.5°	2227.5	1703.5	1188.3	1140.1	1164.2	1376.9	1729.8	1979.8	2350.3	2573.9	2560.8
80°	1346.2	1216.8	949.3	918.6	942.7	1177.3	1600.5	1878.9	2054.3	2199.0	2199.0
82.5°	703.8	743.2	697.2	673.1	706.0	955.9	1455.8	1639.9	1815.3	1558.8	1455.8
85°	287.2	388.1	423.1	420.9	440.7	662.1	1256.3	1403.2	1170.8	1111.6	1137.9
87.5°	96.5	164.4	206.1	177.6	186.4	416.6	870.4	677.5	804.6	561.3	532.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)